

## UINTAH BASIN DISTRICT HEALTH DEPARTMENT

Reply To:  
Uintah County Courthouse, Rm 20, Vernal, UT 84078 - (801) 781-0770 ☐  
Duchesne County Courthouse, Box 210, Duchesne, UT 84021 - (801) 738-5370 ☐  
Daggett County Courthouse, Box 156, Manila, UT 84046 - (801) 784-3494 ☐  
Roosevelt Branch Office, 57 No. 100 East (83-7), Roosevelt, UT 84066 - (801) 722-5085 ☐

Joseph B. Shaffer, M.A.  
Director  
Health Officer  
Lorraine Wilson, R.N.  
Nursing Supervisor  
Lowell Card, R.S.  
Environmental Health  
Supervisor  
Carma Preece  
Office Manager

**Board of Health Members**

LaRae Sadlier  
Thomas Howells  
Alton Moon  
William Durant, M.D.  
Keith Goodspeed  
Ellen Rawlings  
Neal Domgaard  
Richard Jolley, D.D.S.

January 21, 1987

Ziegler Chemical and Mineral Corporation  
Star Route  
Vernal, Utah 84078

ATTENTION: Norman Haslem

REGARDING: Solid waste facility at the Little Bonanza  
Gilsonite Mine

Dear Mr. Haslem:

I appreciated visiting with you at the Ziegler site last week and reviewing the current site of the solid waste disposal facilities with you.

It appears that the proposal you have made in dealing with the cleanup of the solid waste in the future at the site is environmentally sound and in the interest of public health. The cleanup of the old historical dump consisting of four to five acres of debris accumulated over the last forty years is certainly commendable. The salvaging of the scrap metal and consolidation and burying of the unusable scrap is excellent. In reviewing State Regulations regarding the disposal of solid waste, the site of the old dump does not appear to be a site which would constitute any problem. Bulldozing a pit and burying the debris would be an excellent way of permanently and satisfactorily disposing of the waste according to these regulations.

Your proposal for the construction of a cage to burn the waste pallets and bags from the mining operations seems to be an acceptable method to reduce the possibility of windblown debris and reduce the volume of trash which will be hauled away in the future as per our proposal. The one caution advised is that upon each instance of burning of the material for consolidation, a burn permit should be obtained by Ziegler from Uintah Basin District Health Department offices. A

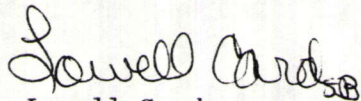
EXHIBIT 16



telephone call to our office should provide you with authorization from the Health Department to proceed with the industrial burning. There are certain periods during the year when the clearing index for the air quality is not sufficiently high enough to permit burning. You should be prepared to defer burning on days when burn permits are not available.

Thanks again for your cooperation. Please let me know when you have the consolidation and cleanup fairly well along and completed. I would like to make another inspection to observe the cleanup and the clean site for the record .

Sincerely yours,

A handwritten signature in dark ink, appearing to read "Lowell Card". The signature is fluid and cursive, with a small "SB" written below the name.

Lowell Card  
Environmental Health Director

LC/skb

TABLE 1

ZIEGLER CHEMICAL REVEGETATION PLAN

Site	Species	Type & Rate of Mulch	Seeding Method	Season
Chemical Pulverizing Plant	*	**	***	****
Sacking Plant	*	**	***	****
Grinder, Solar Cell etc.	*	**	***	****
Grinder	*	**	***	****
Chemical Mine #1	*	**	***	****
Chemical Mine #3	*	**	***	****
Chemical Mines #11 & 12	*	**	***	****
Independant #4	*	**	***	****
Independant #5	*	**	***	****
Little Emma	*	**	***	****
Cottonwood #1	*	**	***	****
Cottonwood #2	*	**	***	****

\* Species: Refer to Table 2 for the seed mix to be used in revegetation.

\*\* Mulch: Alfalfa hay, straw & fiber. Since reseeding would be site specific, the type and rate of mulch would be based on recommendations of personnel at the Division of Oil, Gas & Mining prior to reclamation of an individual site.

\*\*\* Seeding Method: Drill and/or Broadcast.

\*\*\*\* Seeding at each location would commence the first fall following reclamation of a site.



TABLE 2

SEED MIX

COMMON NAME	BOTONICAL NAME	RATE/ACRE PLS	
		DRILLED	BROADCAST
Western Wheatgrass	<u>Agropyron smithii</u>	3.0	4.5
Bluebunch Wheatgrass	<u>Agropyron spicatum</u>	1.0	1.5
Russian Wildrye	<u>Elymus junceus</u>	2.0	3.0
Indian Ricegrass	<u>Oryzopsis hymenoides</u>	2.0	3.0
Yellow Sweet Clover	<u>Melilotus officinalis</u>	0.5	0.75
Nomad Alfalfa	<u>Medicago sativa</u>	0.5	0.75
Cicer Milkvetch	<u>Astragalus cicer</u>	1.0	1.5
Winterfat	<u>Ceratoides lanta</u> <sup>a</sup>	1.0	1.5
Sagebrush	<u>Ademsia tridentata</u>	0.5	0.75
Rabbitbrush	<u>Chrysothamnus</u> <u>nauseosus</u>	0.5	0.75
		<u>12</u>	<u>17</u>

## MAPS

A-1	Little Bonanza Gilsonite Mines Layout Plat
B	Contour Map
C-1	Office & Other Mining Facilities Site
C-2	Pulverizing Plant
C-3	Sacking Plant
C-4	Ore Grinder & Storage Facilities; Solar Ore Dryer
C-5	Grinder
C-6	Ziegler Chemical Mine #1
C-7	Ziegler Chemical Mine #3
C-8	Ziegler Chemical Mines #11 & #12
C-9	Independent #3
C-10	Independent #4
C-11	Independent #5
C-12	Little Emma
C-13	Cottonwood #1
C-14	Cottonwood #2